

## Abstract

In order to implement two different sensitivities simultaneously in one component, in particular in an acceleration sensor having a substrate (5), at least one spring device (3, 4, 10), and at least one seismic mass, it is proposed that the spring device (3, 4, 10) be designed for an intrinsically nonlinear behavior corresponding to a progressive spring characteristic curve, in which a greater acceleration ( $g$ ) is associated at least locally with a greater rigidity (spring constant).

(Figure 1)